



# Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/18/2015

Invoice # 35110

API#

Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: hunziker 1c-28hz

County: Weld

State: Colorado

Sec: 28

Twp: 2n

Range: 67w

Consultant: sam

Rig Name & Number: advanced 10

Distance To Location: 25

Units On Location: 4030-3203/4024-3203

Time Requested: 1000 am

Time Arrived On Location: 830 am

Time Left Location: 2:30 pm

## WELL DATA

Casing Size OD (in) : 9.625  
Casing Weight (lb) : 36.00  
Casing Depth (ft) : 1,300  
Total Depth (ft) : 1318  
Open Hole Diameter (in.) : 13.50  
Conductor Length (ft) : 50  
Conductor ID : 16  
Shoe Joint Length (ft) : 42  
Landing Joint (ft) : 8

Max Rate:

Max Pressure:

## Cement Data

Cement Name: BFN III  
Cement Density (lb/gal) : 14.2  
Cement Yield (cuft) : 1.49  
Gallons Per Sack: 7.48  
% Excess: 15%  
Displacement Fluid lb/gal: 8.3  
BBL to Pit:  
Fluid Ahead (bbls): 30.0  
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

## Calculated Results

**cuft of Shoe** 18.23 **cuft**  
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

**cuft of Conductor** 44.55 **cuft**  
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

**cuft of Casing** 702.55 **cuft**  
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

**Total Slurry Volume** 765.33 **cuft**  
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

**bbls of Slurry** 136.30 **bbls**  
(Total Slurry Volume) X (.1781)

**Sacks Needed** 514 **sk**  
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

**Mix Water** 91.48 **bbls**  
(Sacks Needed) X (Gallons Per Sack) ÷ 24

**Displacement:** 97.87 **bbls**

(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

## Pressure of cement in annulus

**Hydrostatic Pressure:** 959.01 **PSI**

## Pressure of the fluids inside casing

**Displacement:** 542.43 **psi**

**Shoe Joint:** 30.98 **psi**

**Total** 573.41 **psi**

**Differential Pressure:** 385.60 **psi**

**Collapse PSI:** 2020.00 **psi**

**Burst PSI:** 3520.00 **psi**

**Total Water Needed:** 229.35 **bbls**

x *Samuel Stetson*  
Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



**Bison Oil Well Cementing  
Single Cement Surface Pipe**

Customer  
Well Name

Anadarko Petroleum Corporation  
hunziker 1c-28hz

INVOICE #  
LOCATION  
FOREMAN  
Date

35110  
Weld  
kirk kallhoff  
1/18/2015

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**DESCRIPTION OF JOB EVENTS**

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	1220p	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE	845a	0	134pm	10	0			0			0			0		
Drop Plug	1255p	10	136pm	50	10			10			10			10		
134 pm		20	138pm	70	20			20			20			20		
		30	140pm	80	30			30			30			30		
		40	142pm	140	40			40			40			40		
M & P		50	144pm	210	50			50			50			50		
Time	Sacks	60	146pm	270	60			60			60			60		
101 pm	514	70	148pm	340	70			70			70			70		
131 pm stop		80	150pm	400	80			80			80			80		
		90	152pm	400	90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
% Excess	15%	120			120			120			120			120		
Mixed bbls	91.5	130			130			130			130			130		
Total Sacks	514	140			140			140			140			140		
bbl Returns	9	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 155 pm 1420 psi

floats held

x Samuel Taylor  
Work Performed

x Company man  
Title

x 1-18-15  
Date



# M/D TOTCO 2000 SERIES

